# Proposed Updates to Delaware's Inspection and Maintenance Program





Department of Natural Resources & Environmental Control
Division of Air Quality
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Blue Skies Delaware; Clean Air for Life

# What is the Inspection and Maintenance Program?

- All vehicles required to undergo I/M testing every 2 years except the seven (7) newest model years
- Ensures that Delaware registered vehicles meet federal tailpipe emission standards
- Vehicles that do not meet the standards are repaired and retested before they can be registered for a vehicle tag

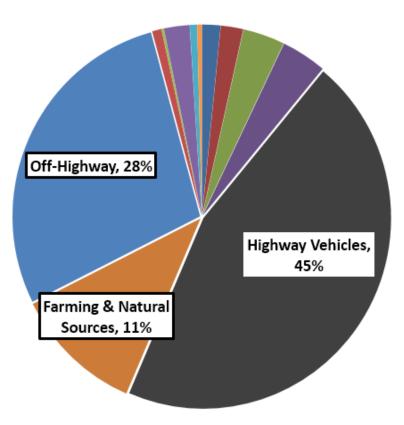




# Why is the I/M Program so Important?

- 45% of Delaware's air pollution can be be attributed to the highway vehicles
- Cars emit several pollutants of concern including:
  - Hydrocarbons (HCs)
  - Nitrogen Oxide (NOx)
  - Carbon Monoxide (CO)
  - Volatile Organic Compounds (VOCs)
  - □ Particulate Matter (PM) 2.5 and 10
- Emissions from vehicles cause and make worse:
  - Asthma, heart disease and COPD

### **Sources of Criteria Pollutants**



Data Source: NEI2014V2



### **Sources of Transportation Air Pollution**

Smog and soot → Health and welfare impacts

CO₂ and other greenhouse gases → Climate change

Light Duty Vehicles

Nonroad Diesel Equipment

Nonroad



### **Solutions for Transportation Air Pollution**

#### Emission reductions -> Cleaner air & better health



#### Catalytic converters in conjunction with

in conjunction with unleaded gasoline and low sulfur levels significantly reduce hydrocarbon & nitrogen oxide emissions



#### Fuel standards reduce exposure to pollutants like lead and benzene

Renewable fuels reduce CO<sub>2</sub> emissions



#### Engine technologies like computer controls, variable

valve timing, multi-valve engines, turbo charging & gasoline direct injection improve fuel economy & reduce CO<sub>2</sub> emissions



#### Transmission technologies like 7+ speeds

like 7+ speeds, dual clutch transmissions (DCTs), & continuously variable transmissions (CVTs) improve fuel economy & reduce CO<sub>2</sub> emissions



#### Diesel filters

reduce particulate matter from on road & off road diesel engines



### Alternative vehicle technologies

like plug-in electric vehicles & fuel cells = zero tailpipe emissions



#### transportation planning for passengers &

for passengers freight reduce emissions & fuel use





### Current I/M Tests

Model Year	Test Type	Pollutants	Counties
1968-1980	Idle (Curb) Test	HC, CO	All Counties
1975-1980	Cap Pressure Test	HC, CO	New Castle and Kent Counties
1975 through 1995	Tank Pressure Test	HC, CO	New Castle and Kent Counties
1975 and newer	Visual Inspection* of Catalytic Converter	NOx, HC, CO	All Counties
1981-1995	Exhaust Emissions (Two Speed Idle (TSI)	HC, CO	All Counties (Registered vehicles)
1996 and newer (Exempts seven most recent model years)	On-Board Diagnostics II Test (OBD)	Surrogate for NOx, HC, CO	New Castle and Kent Counties

<sup>\*</sup>Confirming the catalytic converter has not been tampered with by the vehicle owner.







# Why propose a statewide program?

- On September 21, 2017 the General Assembly passed House Bill 246
  - Extended the exemption from inspection for new cars from 5 years to 7 years
  - This extension necessitates updates to DNREC's "Motor Vehicle Emissions Inspection Program" and "Low Enhanced Emissions Inspection and Maintenance Program. (Regulations 1126 and 1131)
- Help to streamline DMV operations
- Aligns with Delaware's air quality goals





# Proposed Statewide Program

Model Year	Test Type	Pollutants	Counties
1968-1980	Idle (Curb) Test	HC, CO	All Counties
1975-1980	Cap Pressure Test	HC, CO	All Counties*
1975 and newer	Visual Inspection of Catalytic Converter	NOx, HC, CO	All Counties*
1981-1995	Exhaust Emissions (Tailpipe Test)	HC,CO	All Counties*
1996 and newer (Exempts current seven model years)	On-Board Diagnostics II Test (OBD)	Surrogate for NOx, HC, CO	All Counties*

<sup>\*</sup>Adding in Sussex County.

<sup>-</sup>All Counties - Eliminate Pressure and Two Speed Idle (TSI) tests.



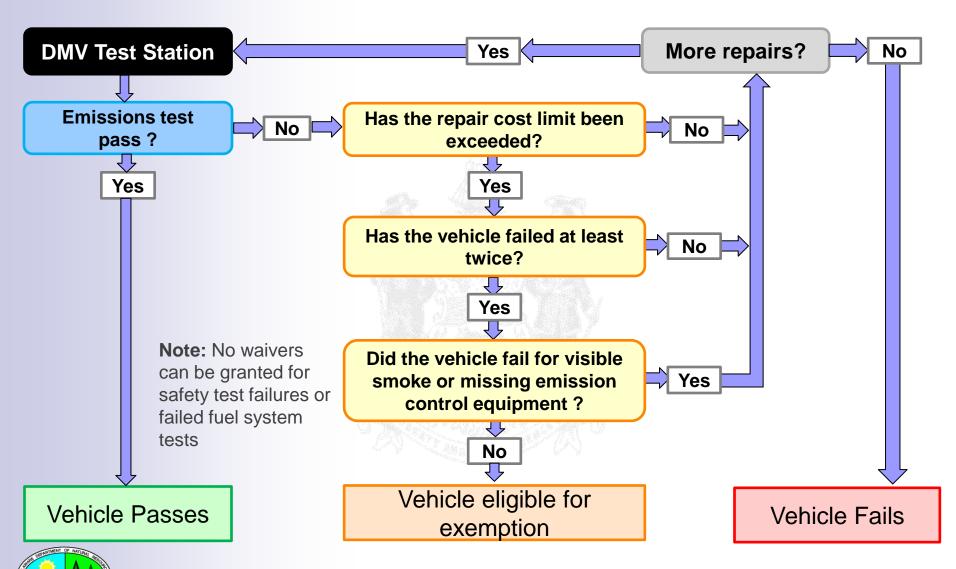
## **Exemption Requirements**

- An exemption may be issued to a motor vehicle that cannot comply with the applicable exhaust emissions standard and be repaired for a reasonable cost
- Failing an emissions test requires that repairs be performed by a Certified Emission Repair Technician (CERT) in order to apply for an exemption
  - ☐ The vehicle owner may make the repairs, in which case only the cost of the parts used can be counted towards the cost





## **Emissions Testing – Exemptions**



# **Current Repair Thresholds**



- Current cost of repairs for obtaining an exemption from passing the emissions test:
  - New Castle County \$897 \*
  - □ Kent County \$897 \*
  - ☐ Sussex County \$200<sup>s</sup>

- \* Adjusted each year in line with the CPI
- s \$75 for pre-1981 vehicles



# Proposals for the exemption cost for Sussex County vehicle owners

### Proposal #1 –

- 2019 –\$400
- 2020 –\$600
- 2021 –\$800
- □ 2022 –parity with Kent & New Castle County

### Proposal #2 –

- 2018 –\$200
- 2019 –\$200
- **2020 –\$450**
- 2021 –\$450
- 2022 –parity with Kent & New Castle County

### Proposal #3 –

Immediate parity with New Castle & Kent County in 2019







## Wrap up and Questions

Which approach do you feel is best? Provide us with your feedback



